

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: J. Sharon
Serial No.: Not yet assigned
Filed: Herewith
For: POLYCLONAL ANTIBODY LIBRARIES

GROUP:
EXAMINER:

The Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

PRELIMINARY AMENDMENT

Applicant is submitting simultaneously herewith a new divisional application.
Please amend the above-described application as follows:

IN THE SPECIFICATION:

On page 1, before line 1, please add the following:

--This application is a divisional of copending application 09/057,937, filed April 9, 1998, which is a continuation of application no. 08/469,503, filed June 6, 1995, which is a divisional of application no. 08/802,824, filed February 19, 1997, which is a continuation of application no. 08/189,360, filed January 31, 1994.

IN THE CLAIMS:

Please cancel claims 2-49, 51-78, and 80-103.

Please add the following new claims:

--104. A library of vectors wherein each vector contains a nucleic acid segment that encodes a pair of variable regions, wherein the totality of nucleic acid segments comprises a library of polyclonal nucleic acid segments, wherein said library of polyclonal nucleic acid

segments has been transferred in mass, without isolating individual library members, from a different library of vectors to said library of vectors, and wherein said library of polyclonal nucleic acid segments has been selected in mass before said transfer from a larger library of polyclonal nucleic acid segments wherein each nucleic acid segment encodes a pair of variable regions.

105. The library of vectors of claim 104 wherein the variable regions are antibody variable regions.

106. The library of vectors of claim 104 wherein the variable regions are T cell receptor variable regions.

107. The library of vectors of claim 104 wherein said variable regions are derived from any receptor or combination of receptors that contain variable regions.

108. The library of vectors of claim 104 wherein said library of vectors is capable of expressing a library of receptor proteins wherein each receptor protein contains a pair of variable regions encoded by a nucleic acid segment of said library of polyclonal nucleic acid segments.

109. A population of host cells expressing a library of receptor proteins expressed from the library of vectors of claim 108.

110. A diagnostic kit for the detection of a disease or disorder in a patient comprising a library of antibodies or antibody fragments made by the method of claim of claim 50.

Parameter	Value	Unit
Initial temperature	25.0	°C
Final temperature	25.0	°C
Initial pressure	1.013	bar
Final pressure	1.013	bar
Initial volume	0.001	m³
Final volume	0.001	m³
Initial mass	0.001	kg
Final mass	0.001	kg
Initial density	1000	kg/m³
Final density	1000	kg/m³
Initial viscosity	0.001	Pa·s
Final viscosity	0.001	Pa·s
Initial thermal conductivity	0.6	W/m·K
Final thermal conductivity	0.6	W/m·K
Initial specific heat capacity	4182	J/kg·K
Final specific heat capacity	4182	J/kg·K
Initial enthalpy	4182	J/kg
Final enthalpy	4182	J/kg
Initial entropy	4182	J/kg·K
Final entropy	4182	J/kg·K
Initial internal energy	4182	J/kg
Final internal energy	4182	J/kg
Initial Gibbs free energy	4182	J/kg
Final Gibbs free energy	4182	J/kg
Initial Helmholtz free energy	4182	J/kg
Final Helmholtz free energy	4182	J/kg
Initial chemical potential	4182	J/kg
Final chemical potential	4182	J/kg
Initial activity	1.0	
Final activity	1.0	
Initial fugacity	1.013	bar
Final fugacity	1.013	bar
Initial vapor pressure	1.013	bar
Final vapor pressure	1.013	bar
Initial boiling point	100.0	°C
Final boiling point	100.0	°C
Initial melting point	0.0	°C
Final melting point	0.0	°C
Initial triple point	0.01	°C
Final triple point	0.01	°C
Initial critical point	373.95	°C
Final critical point	373.95	°C
Initial normal boiling point	100.0	°C
Final normal boiling point	100.0	°C
Initial normal melting point	0.0	°C
Final normal melting point	0.0	°C
Initial normal triple point	0.01	°C
Final normal triple point	0.01	°C
Initial normal critical point	373.95	°C
Final normal critical point	373.95	°C
Initial normal vapor pressure	1.013	bar
Final normal vapor pressure	1.013	bar
Initial normal boiling point	100.0	°C
Final normal boiling point	100.0	°C
Initial normal melting point	0.0	°C
Final normal melting point	0.0	°C
Initial normal triple point	0.01	°C
Final normal triple point	0.01	°C
Initial normal critical point	373.95	°C
Final normal critical point	373.95	°C
Initial normal vapor pressure	1.013	bar
Final normal vapor pressure	1.013	bar
Initial normal boiling point	100.0	°C
Final normal boiling point	100.0	°C
Initial normal melting point	0.0	°C
Final normal melting point	0.0	°C
Initial normal triple point	0.01	°C
Final normal triple point	0.01	°C
Initial normal critical point	373.95	°C
Final normal critical point	373.95	°C
Initial normal vapor pressure	1.013	bar
Final normal vapor pressure	1.013	bar
Initial normal boiling point	100.0	°C
Final normal boiling point	100.0	°C
Initial normal melting point	0.0	°C
Final normal melting point	0.0	°C
Initial normal triple point	0.01	°C
Final normal triple point	0.01	°C
Initial normal critical point	373.95	°C
Final normal critical point	373.95	°C
Initial normal vapor pressure	1.013	bar
Final normal vapor pressure	1.013	bar
Initial normal boiling point	100.0	°C
Final normal boiling point	100.0	°C
Initial normal melting point	0.0	°C
Final normal melting point	0.0	°C
Initial normal triple point	0.01	°C
Final normal triple point	0.01	°C
Initial normal critical point	373.95	°C
Final normal critical point	373.95	°C
Initial normal vapor pressure	1.013	bar
Final normal vapor pressure	1.013	bar
Initial normal boiling point	100.0	°C
Final normal boiling point	100.0	°C
Initial normal melting point	0.0	°C
Final normal melting point	0.0	°C
Initial normal triple point	0.01	°C
Final normal triple point	0.01	°C
Initial normal critical point	373.95	°C
Final normal critical point	373.95	°C
Initial normal vapor pressure	1.013	bar
Final normal vapor pressure	1.013	bar
Initial normal boiling point	100.0	°C
Final normal boiling point	100.0	°C
Initial normal melting point	0.0	°C
Final normal melting point	0.0	°C
Initial normal triple point	0.01	°C
Final normal triple point	0.01	°C
Initial normal critical point	373.95	°C
Final normal critical point	373.95	°C
Initial normal vapor pressure	1.013	bar
Final normal vapor pressure	1.013	bar
Initial normal boiling point	100.0	°C
Final normal boiling point	100.0	°C
Initial normal melting point	0.0	°C
Final normal melting point	0.0	°C
Initial normal triple point</		

In view of the foregoing, Applicant submits that all claims are in condition for early and favorable allowance. Early and favorable action is requested.

Date: 5/15/01

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